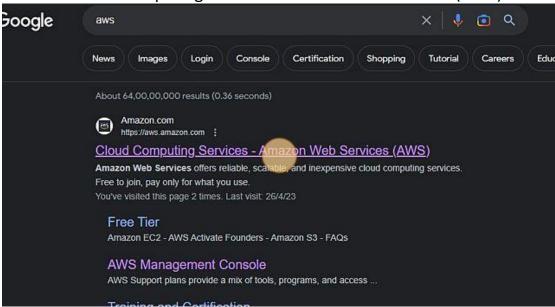
# **AWS Workflow**

1. Navigate to www.google.com/search?q=aws&oq=&aqs=chr...

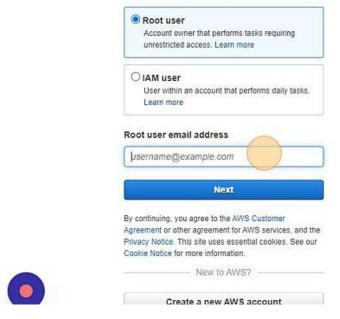
2. Click "Cloud Computing Services - Amazon Web Services (AWS)"2



3. Click "Sign In"

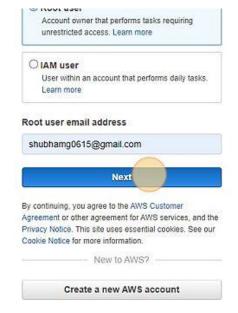


## 4. Click the "username@example.com" field.3





#### 5. Click "Next"



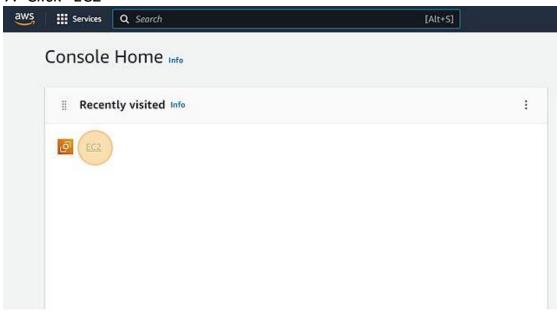


## 6. Click "Sign in"4

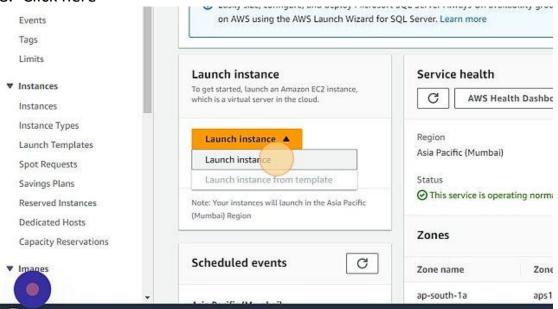




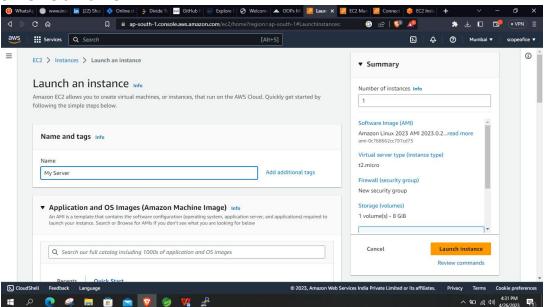
## 7. Click "EC2"



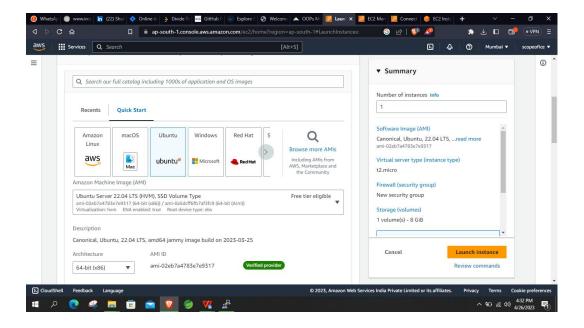
#### 8. Click here



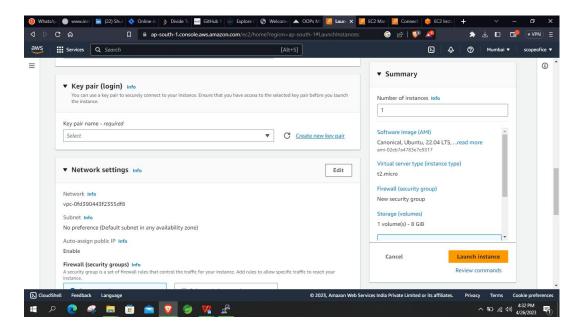
#### 9. Give a Name



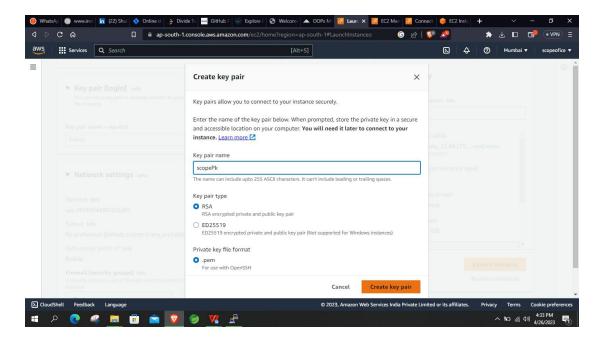
#### 9.1 Select "Ubuntu"



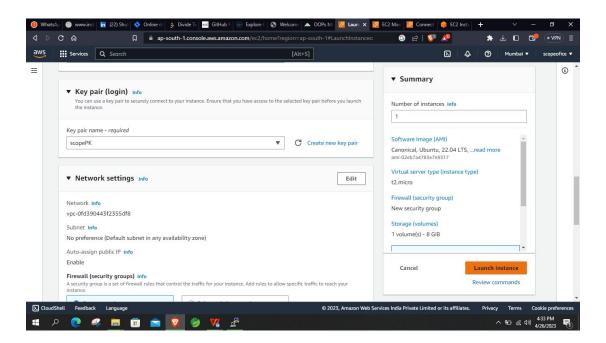
## 9.2 Select "Create new key pair"



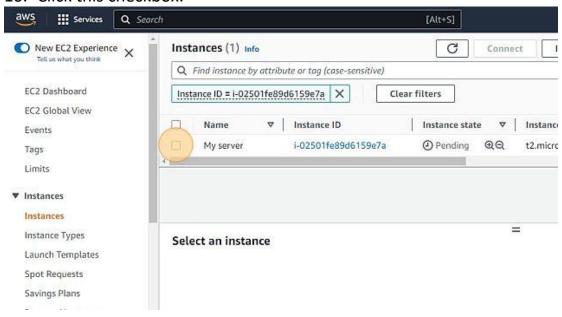
## 9.3 Give a name and Select "Create key pair"



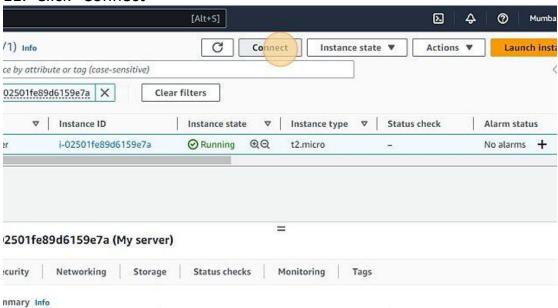
#### 9.3 Click "Launch instance"



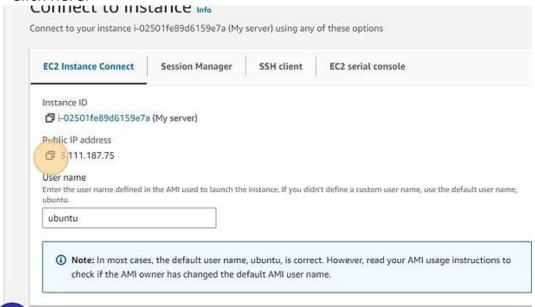
#### 10. Click this checkbox.



## 11. Click "Connect"



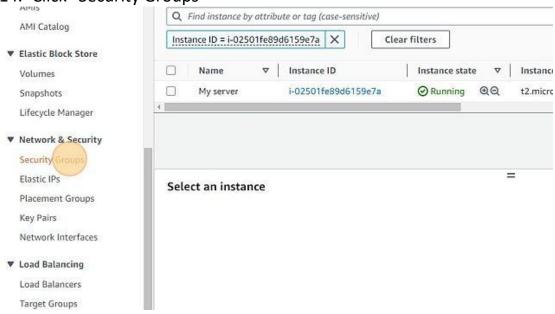
## 12. Click here.



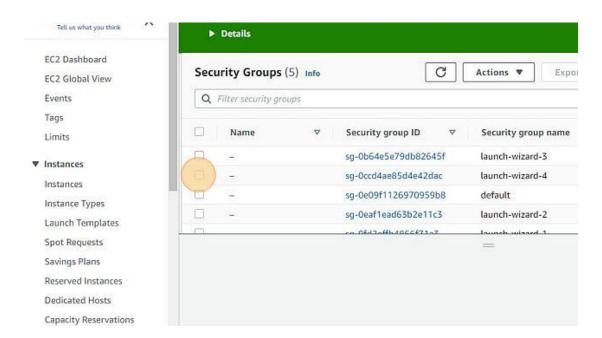
#### 13. Click "Connect"



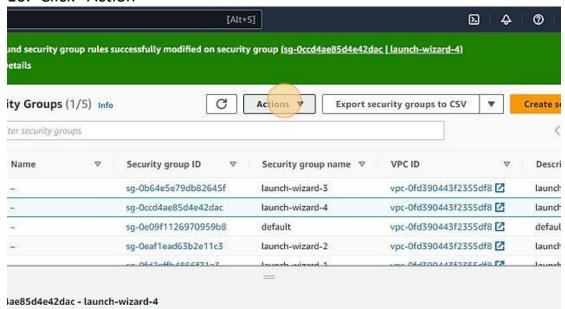
14. Click "Security Groups"



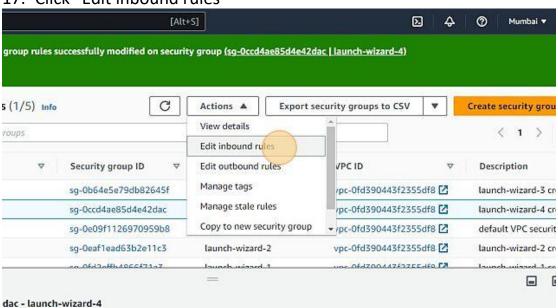
#### 15. Select the last launch-wizard



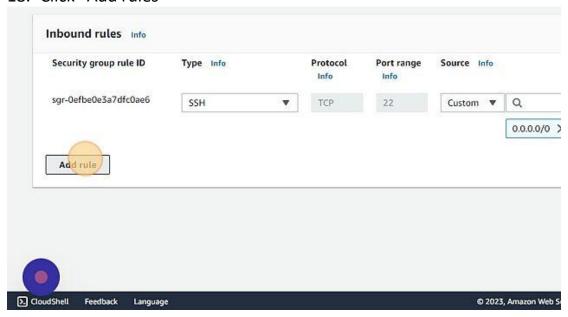
#### 16. Click "Action"



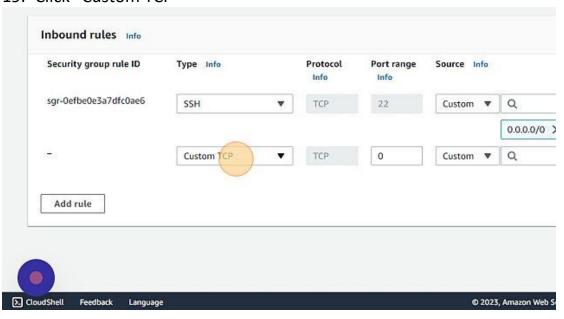
#### 17. Click "Edit inbound rules"



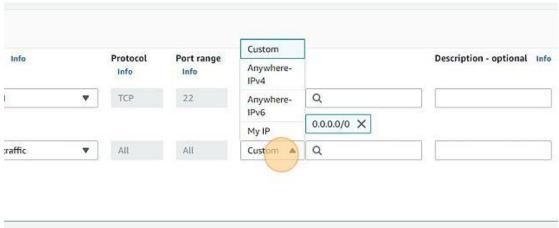
## 18. Click "Add rules"



## 19. Click "Custom TCP"



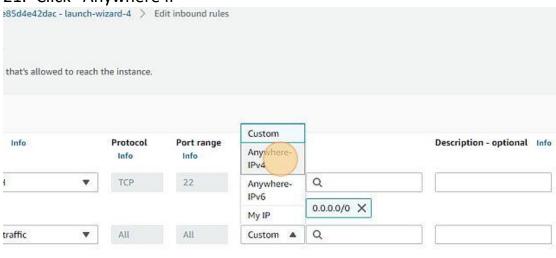
## 20. Click "Custom"



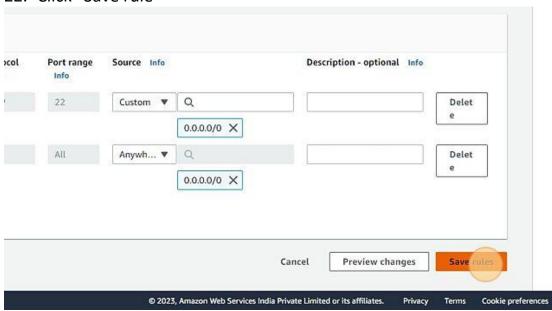
Cancel Preview changes

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## 21. Click "Anywhere IP"

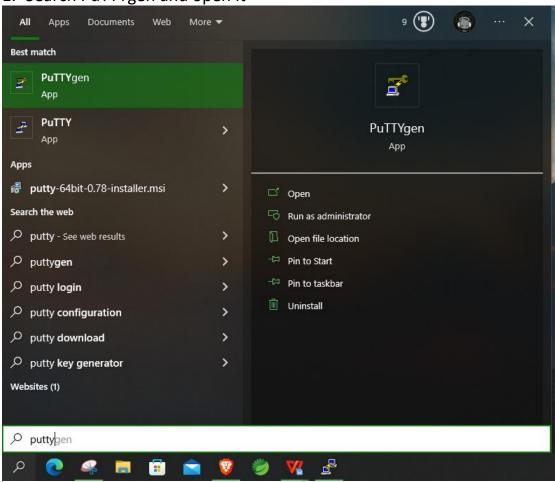


# 22. Click "Save rule"

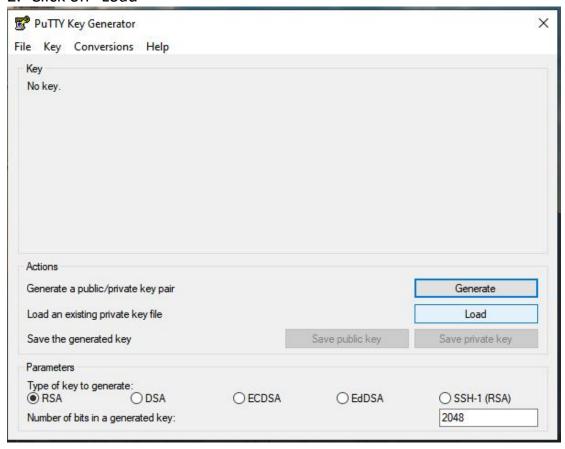


## **PuTTY Commands**

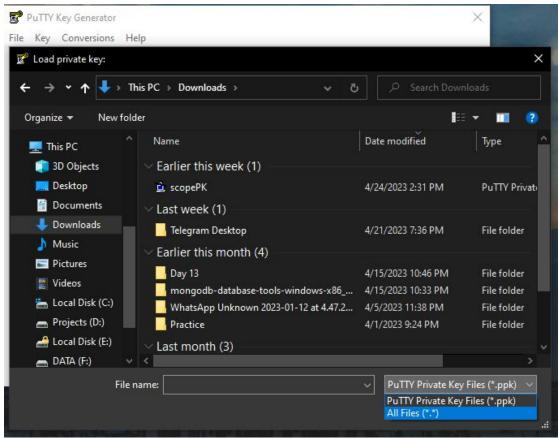
1. Search PuTTYgen and open it



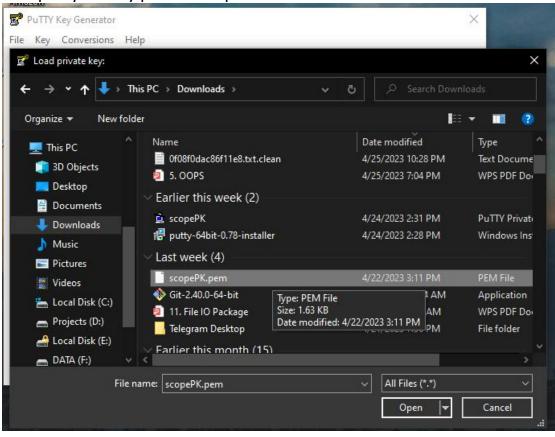
## 2. Click on "Load"



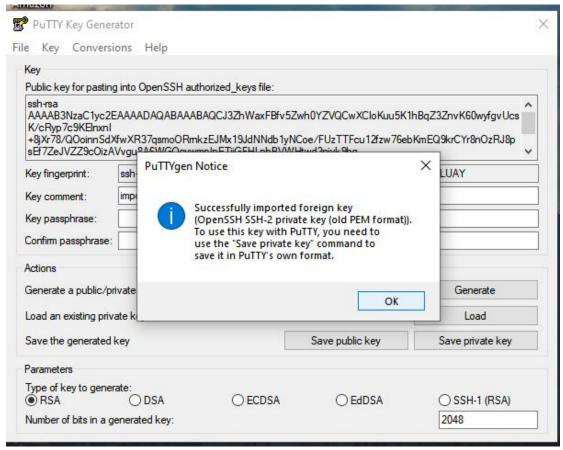
### 3. Select "All files\*"



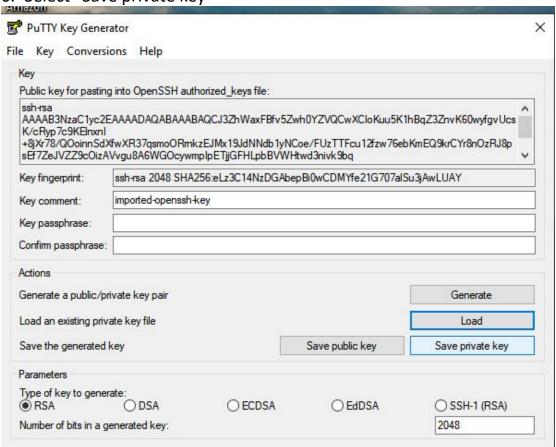
4. Open your key pair with ".pem" extension



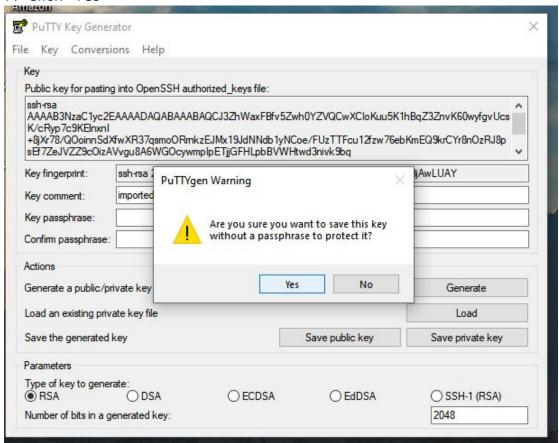
## 5. Click "ok"



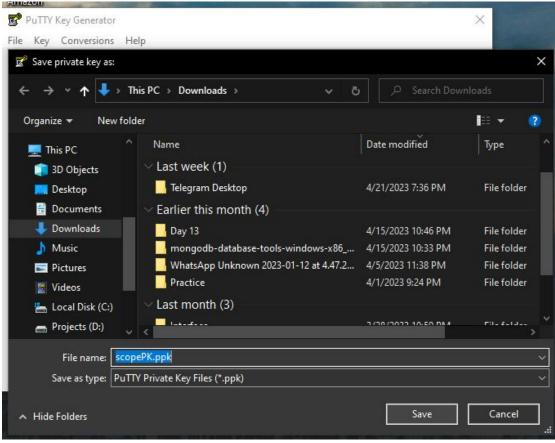
6. Select "Save private key"



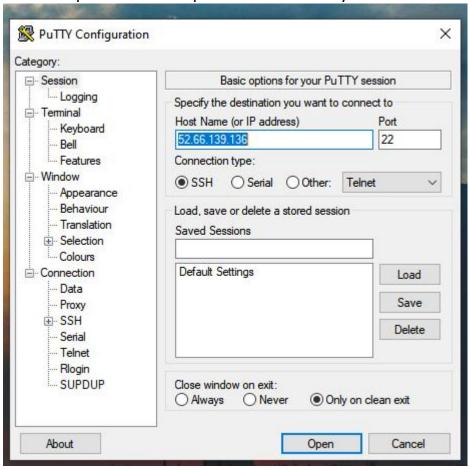
## 7. Click "Yes"



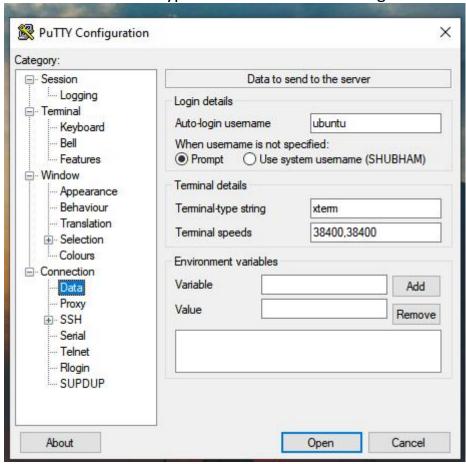
## 8. Save your private key



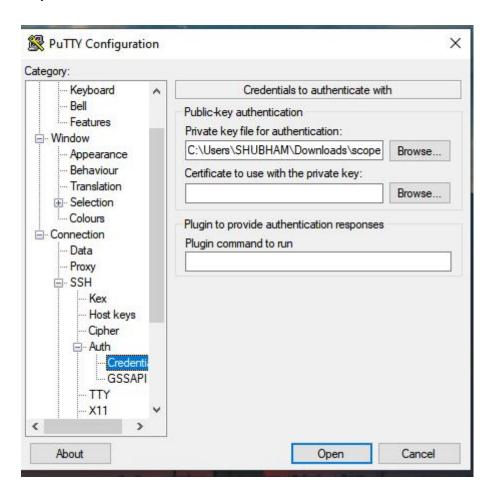
9. Now open PuTTY and paste IP address of your instance

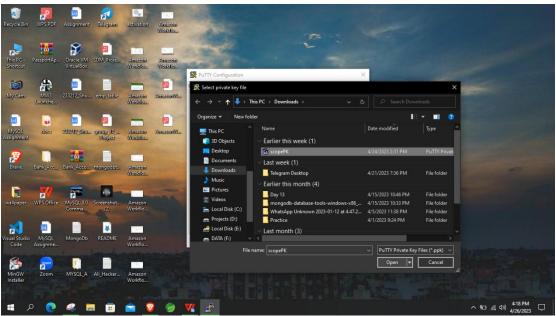


10. Select Data and type "ubuntu" in the Auto-login username

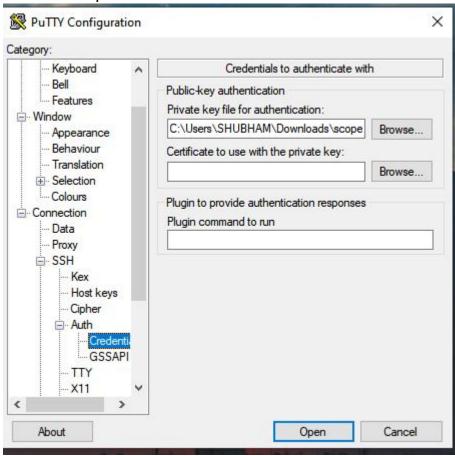


11. Go through "SSH>>Auth>>Credentials" then browse your private key.

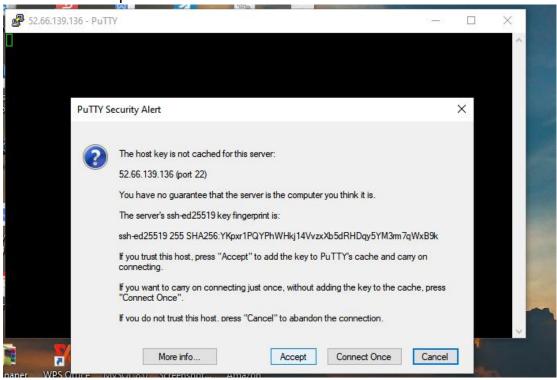




# 12. Click "Open"



13. Click "Accept"



# 14. Type command- "sudo apt install"

```
ubuntu@ip-172-31-40-213:~$ sudo apt install
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
ubuntu@ip-172-31-40-213:~$
```

### 15. Type command- "sudo apt-get update"

```
ubuntu@ip-172-31-43-150:~$ sudo apt-get update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [108 kB]
Get:5 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:6 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [795 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:8 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [155 kB]
Get:9 http://security.ubuntu.com/ubuntu jammy-security/main amd64 c-n-f Metadata [9024 B]
```

16. If you are using an old key, Type command- "sudo apt-get install docker.io" then "Y" else If installing for the first time- "sudo apt install docker.io".

```
ubuntu@ip-172-31-43-150:~$ sudo apt-get install docker.io
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
 bridge-utils containerd dns-root-data dnsmasq-base pigz runc ubuntu-fan
Suggested packages:
 ifupdown aufs-tools cgroupfs-mount | cgroup-lite debootstrap docker-doc rinse zfs-fuse
The following NEW packages will be installed:
 bridge-utils containerd dns-root-data dnsmasq-base docker.io pigz runc ubuntu-fan
upgraded, 8 newly installed, 0 to remove and 35 not upgraded.
Need to get 72.4 MB of archives.
After this operation, 287 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:l http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 pigz amd64 2.6
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 bridge-utils amd64
```

17. Type command- git clone

https://github.com/RaviTambade/iacsdrepomarch23.git

```
ubuntu@ip-172-31-40-213:~$ git clone https://github.com/RaviTambade/iacsdrepomarch23.git Cloning into 'iacsdrepomarch23'...
remote: Enumerating objects: 17, done.
remote: Counting objects: 100% (17/17), done.
remote: Compressing objects: 100% (16/16), done.
remote: Total 17 (delta 0), reused 14 (delta 0), pack-reused 0
Receiving objects: 100% (17/17), 76.54 KiB | 7.65 MiB/s, done.
```

18. Type command- "Ls >> cd iascdrepomarch23 >> Ls >> sudo docker build -t iacsd." this is to build an image of the repo. Follow the steps carefully, you can type any name instead of iacsd and not there is a space and a dot after the name.

```
ubuntu@ip-172-31-43-150:~$ 1s
ubuntu@ip-172-31-43-150:~$ cd iacsdrepomarch23/
ubuntu@ip-172-31-43-150:~/iacsdrepomarch23$ sudo docker build -t iacsd .
Sending build context to Docker daemon
                                         492 kB
Step 1/7 : FROM node:7
7: Pulling from library/node
ad74af05f5a2: Pull complete
2b032b8bbe8b: Pull complete
a9a5b35f6ead: Pull complete
3245b5a1c52c: Pull complete
afa075743392: Pull complete
9fb9f21641cd: Pull complete
3f40ad2666bc: Pull complete
49c0ed396b49: Pull complete
Digest: sha256:af5c2c6ac8bc3fa372ac03lef60c45a285eeba7bce9ee9ed66dad3a0le29ab8d
Status: Downloaded newer image for node:7
 ---> d9aed20b68a4
```

19. Type command- "sudo docker images" to check if your image is created successfully.

```
ubuntu@ip-172-31-43-150:~/iacsdrepomarch23$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
iacsd latest 74afff4a0ef2 4 minutes ago 668MB
node 7 d9aed20b68a4 5 years ago 660MB
```

20. Type command- "sudo docker run -d -p 8081:8081 iacsd" you can give any 4 digit port number and at the end type the image name. To check your image is running type command- "sudo docker ps"

```
ubuntu@ip-172-31-43-150:~/iacsdrepomarch23$ sudo docker run -d -p 8081:8081 iacsd
861bfbdee1262638536647b46c554779f9615e4482099e236a034ab45616e04e
ubuntu@ip-172-31-43-150:~/iacsdrepomarch23$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
861bfbdee126 iacsd "/bin/sh -c 'node se..." 7 seconds ago Up 6 seconds 0.0.0.0:8081-
```

21. Copy your IP address and ":8081 " type the image port no. Press enter.

